

- Location: **Nova Varoš, Serbia**
- Operating since: **1981**
- Ownership: **Municipality of N.Varoš**
- Grid: **4638 m** (owned by municipality)
- Customers: **765**
- Connected load: **9538 kW**
- Boiler output: **15520 kW** (12 boilers)
- Type of DHS: **hot-water**
- Current fuel: **oil, pellets**
- Potential renewables nearby:
wood chips



Source: http://www.bioenergy-serbia.rs/images/documents/studies/Biomass_in_DH_2014.pdf

Investment plans:

Reconstruction and modernization of all boiler rooms and distribution network, **transition** from fossil fuels/oil **to biomass** in existing boiler houses, planned in the next 2 years.

For more information:

- www.keepwarmeurope.eu/country-pages/serbia
- energijazlatarnv@gmail.com

Construction of a new 3.0 MW boiler on wood chips with, extended operation including night shift, integration of grid



Primary work-steps and investment drivers:

- First planning, coordination of project
- Contract with PIMO or KfW, producing documentation, selection of bidder,
- Construction phase, obtaining new customers,
- Test phase, training of staff

Strategic background documents:

- Energy Sector Development Strategy of the Republic of Serbia for the period by 2025 with projections by 2030
- The National Sustainable Development Strategy



Stakeholder involvement:

- Leading: Nova Varoš municipality & DHS operators, KfW, PIMO, Regulatory and energy agencies
- Other: Wood chips producers (Holz Tim, Jela Star, Zlatar Šped)

Required resources:

Financial investment: **16400000€**

Additional staff: -

Other: fuel, maintenance, electricity... / **458.682€**



Results:

- RES-share increase: **before 10% ⇒ after 93%**
- RES/fossil heat production ratio: **0,95**
- Reduction of losses: **via primary energy savings: 5%**
- Primary energy factors: **0,629 ⇒ 0,663**
- Emission reductions: **↓2542 tCO₂**
- Return on investment (ROI): **93%** (for period of 25 years)
- Annualized ROI: **2,66**

[Want to adapt our work to your DHS?](#)

[Want to invest in our progressive DHS?](#)

[Contact us using the information below!](#)

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